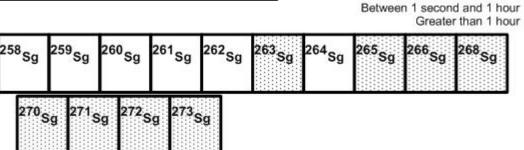
seaborgium



Stable	Atomic mass	Mole
isotope		fraction
(none)		

Half-life of redioactive isotope
Less than 1 second



Important applications of stable and/or radioactive isotopes

Element 106 was discovered in 1974. The nuclide $^{263}106$ was produced in the Super HILAC at Lawrence Berkeley National Laboratory by bombarding a target of 249 Cf with 18 O ions. This nuclide decays by α emission with a half-life of around 1 s. Consensus on the name of this element was announced by IUPAC in 1997.

Applications: Sg has no commercial applications. ²⁶⁵Sg was one of the decay products used to confirm synthesis of Element 112 in a particle accelerator experiment.



Figure 1: Super Heavy Ion Linear Accelerator (Super HILAC) at the Lawrence Berkeley National Laboratory, California, USA. This particle accelerator could accelerate the ions of all known natural elements to energies where they could be smashed apart. This led to the discovery of five superheavy (transuranic) elements.